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 Lucy Terry Nowell, Robert K. France, Deborah Hix, Lenwood S. Heath, Edward A. Fox  
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

**Publisher:** ACM PressFull text available:  [pdf\(1.80 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 Visualizing search results with Envision**

 Lucy Terry Nowell, Robert K. France, Edward A. Fox  
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

**Publisher:** ACM PressAdditional Information: [full citation](#), [index terms](#)**3 Doctoral consortium: Graphical encoding in information visualization**

 Lucy Terry Nowell  
March 1997 **CHI '97 extended abstracts on Human factors in computing systems: looking to the future CHI '97**

**Publisher:** ACM PressFull text available:  [pdf\(389.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In producing a design to visualize search results for a digital library called Envision [5, 7], we found that choosing graphical devices and document attributes to be encoded with each graphical device is a surprisingly difficult task. By *graphical devices* we mean those visual display elements (e.g., color, shape, size, position, etc.) used to convey encoded information. Research in several areas provides scientific guidance for design and evaluation of graphical encodings which might oth ...

**Keywords:** graphical encoding, iconic display, information visualization, user interface design

**4 Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts**

Yasusi Kanada  
May 1998 **Proceedings of the third ACM conference on Digital libraries**

**Publisher:** ACM Press

Full text available: [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Books and reading: A document corpus browser for in-depth reading

Eric Bier, Lance Good, Kris Popat, Alan Newberger  
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

**Publisher:** ACM Press

Full text available: [pdf\(164.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software tools, including Web browsers, e-books, electronic document formats, search engines, and digital libraries are changing the way people read, making it easier for them to find and view documents. However, while these tools provide significant help with short-term reading projects involving small numbers of documents, they provide less help with longer-term reading projects, in which a topic is to be understood in depth by reading many documents. For such projects, readers must find and m ...

**Keywords:** bookplex, computer-aided reading, digital library, document management, spatial memory, visualization, zoomable user interface

6 Demonstrations: MedTextus: an intelligent web-based medical meta-search system

Bin Zhu, Gondy Leroy, Hsinchun Chen, Yongchi Chen  
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

**Publisher:** ACM Press

Full text available: [pdf\(131.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose to demonstrate a web-based prototype system that integrates the meta-search approach with existing information analysis and visualization technologies to facilitate concept-based searching behavior over the medical domain. The system distinguishes itself from other meta-search engines through two features. It incorporates the co-occurrence analysis and existing ontology to understand user's query. It also utilizes the self-organizing map (SOM) to categorize and visualize search result ...

**Keywords:** categorization, concept space, meta search, visualization

7 Envision: a user-centered database of computer science literature

Lenwood S. Heath, Deborah Hix, Lucy T. Nowell, William C. Wake, Guillermo A. Averbach, Eric Labow, Scott A. Guyer, Dennis J. Brueni, Robert K. France, Kaushai Dalal, Edward A. Fox  
April 1995 **Communications of the ACM**, Volume 38 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(186.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Project Envision is an early NSF-funded digital library effort to develop a multimedia collection of computer science literature with full-text searching and full-content retrieval capabilities. Envision was launched in 1991 in accordance with the ACM Publications Board's plans for encouraging research studies to develop an electronic archive for computer science.

8 A study of user behavior in an immersive virtual environment for digital libraries

8 **Fernando A. Das Neves, Edward A. Fox**  
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**  
Publisher: ACM Press  
Full text available:  [pdf\(588.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a 2x3 factorial design study evaluating the limits and differences on the behavior of 10 users when searching in a virtual reality representation that mimics the arrangement of a traditional library. The focus of this study was the effect of clustering techniques and query highlighting on search strategy users develop in the virtual environment, and whether position or spatial arrangement influenced user behavior. We found several particularities t ...

**Keywords:** clustering, interaction design, query coloring, virtual environments

9 **Visualizing digital library search results with categorical and hierarchical axes**  
Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau  
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**  
Publisher: ACM Press  
Full text available:  [pdf\(682.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital library search results are usually shown as a textual list, with 10-20 items per page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

**Keywords:** categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

10 **Graphical encodings: bet you can't use just one!**  
Lucy Terry Nowell, Elizabeth G. Hetzler  
November 1998 **Proceedings of the 1998 workshop on New paradigms in information visualization and manipulation**  
Publisher: ACM Press  
Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** digital library, graphical encoding, human factors, human-computer interaction, information visualization

11 **Effective document presentation with a locality-based similarity heuristic**  
Owen de Kretser, Alistair Moffat  
August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**  
Publisher: ACM Press  
Full text available:  [pdf\(272.23 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 **Visualization of search results: a comparative evaluation of text, 2D, and 3D**

 **interfaces**

Marc M. Sebrechts, John V. Cugini, Sharon J. Laskowski, Joanna Vasilakis, Michael S. Miller  
August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

**Publisher:** ACM Press

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** 2D, 3D, evaluation, information visualization, interface design, text

13 Information space representation in interactive systems: relationship to spatial abilities 

 Bryce Allen  
May 1998 **Proceedings of the third ACM conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Interactive multidimensional document visualization 

 Josiane Mothe, Taoufiq Dkaki  
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

**Publisher:** ACM Press

Full text available:  [pdf\(242.98 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Lexical navigation: visually prompted query expansion and refinement 

 James W. Cooper, Roy J. Byrd  
July 1997 **Proceedings of the second ACM international conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Multimedia abstractions for a digital video library 

 Michael G. Christel, David B. Winkler, C. Roy Taylor  
July 1997 **Proceedings of the second ACM international conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** digital video library, multimedia abstraction, video abstraction, video browsing

17 Networking and mobile computing: Bibliometric approach to community discovery 

 Narsingh Deo, Hemant Balakrishnan  
March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 2 ACM-SE 43**

**Publisher:** ACM Press

Full text available:  [pdf\(356.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research suggests that most of the real-world random networks organize themselves into communities. *Communities* are formed by subsets of nodes in a graph, which are closely related. Extracting these communities would lead to a better understanding of such networks. In this paper we propose a novel approach to discover communities using bibliographic metrics, and test the proposed algorithm on real-world networks as well as with computer-generated models with known community structu ...

**Keywords:** community discovery/identification, graph clustering

**18 Drawing bipartite graphs as anchored maps**



Kazuo Misue

January 2006 **Proceedings of the 2006 Asia-Pacific Symposium on Information Visualisation - Volume 60 APVis '06**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(392.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A method of drawing anchored maps for bipartite graphs is presented. Suppose that the node set of a bipartite graph is divided into set A and set B. On an anchored map of the bipartite graph, the nodes in A, which are called "anchor nodes," are arranged on the circumference, and the nodes in B, which are called "free nodes," are arranged at suitable positions in relation to the adjacent anchor nodes. This article describes aesthetic criteria that are employed according to the purpose of drawing ...

**Keywords:** anchored map, bipartite graph, graph drawing

**19 Information gathering support interface by the overview presentation of web search results**



Takumi Kobayashi, Kazuo Misue, Buntarou Shizuki, Jiro Tanaka

January 2006 **Proceedings of the 2006 Asia-Pacific Symposium on Information Visualisation - Volume 60 APVis '06**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(2.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet consists of several billion documents. Choosing information from such a great number of Web pages is not easy. We do not think that the interfaces of traditional search engines that divide search results into dozens of pages regardless of genre and display the results as a text-based list are necessarily useful. We propose an interface that helps the user to intuitively understand the entire Web search result and to gather information. Our system analyzes and classifies Web search r ...

**Keywords:** clustering, hyperbolic tree, information gathering, interface, visualization, web search

**20 Visualisation interactive de données avec des points d'intérêt**



David Da Costa, Gilles Venturini

April 2006 **Proceedings of the 18th international conference on Association Francophone d'Interaction Homme-Machine IHM '06**

**Publisher:** ACM Press

Full text available:  [pdf\(342.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present in this paper an interactive method for data visualization based on points of interest but in the context of visual data mining. Points of interest are located on a circle,

and data are displayed within this circle according to their similarities to these points of interest. We evaluate the properties of such a visualization with artificial and standard data.

**Keywords:** interactive visualization, points of interest (POI), visual data mining, zoom

Results 1 - 20 of 34

Result page: [1](#) [2](#) [next](#)

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